

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	514	438/640.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/15 13:44
L2	717	438/666.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/15 13:44
L3	775	438/701.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/15 13:44
L4	315	438/713.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/15 13:44
L5	899	438/978.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/15 13:44
L6	287	438/for.458.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/15 13:44
L7	371	438/for.492.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/15 13:44
L8	1209	438/for.355.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/15 13:44
L9	275	438/353.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/15 15:12

## EAST Search History

L10	4745	438/396.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/15 13:44
L11	847	438/386.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/15 13:44
L12	364	438/387.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/15 13:44
L13	2903	438/637.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/15 13:44
L14	8230	L1 L2 L3 L4 L5 L6 L7 L8 L9 L10 L11 L12 L13	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/15 13:44
L29	2	"20020061654".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/15 14:39
L30	114	("conductive film" and "insulating film" and ((first second) adj mask)). clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/15 15:18
L31	0	("conductive film" and "insulating film" and ((first second) adj mask) and (tapered obtuse)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/15 15:19
S19	764095	"438"/\$.ccls. or semic or ic or "257"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/19 15:48
S20	472	438/640.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/17 08:45

## EAST Search History

S21	657	438/666.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/17 08:46
S22	750	438/701.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/17 08:46
S23	293	438/713.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/29 09:18
S24	893	438/978.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/17 08:46
S25	287	438/for.458.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/17 08:46
S26	371	438/for.492.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/17 08:46
S27	1209	438/for.355.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/17 08:46
S28	268	438/353.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/21 14:11
S29	4498	438/396.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/29 10:39
S30	728	438/386.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/17 08:48

## EAST Search History

S31	306	438/387.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/17 08:48
S32	1	("6660580").URPN.	USPAT	OR	OFF	2006/03/17 08:52
S33	14	("20020037624"   "20020061604"   "20020102791"   "20020165615"   "6004856"   "6177284"   "6180447"   "6239461"   "6284595"   "6297527"   "6421223"   "6660580"   "6682969").PN. OR ("6831323"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/17 08:57
S34	53	("5063169"   "5155573"   "5169680"   "5185689"   "5191510"   "5196909"   "5300799"   "5381302"   "5439840"   "5521418"   "5576928"   "5624865"   "5627094"   "5658818"   "5674787"   "5696017"   "5717250"   "5757612"   "5776825"   "5789320"   "5793600"   "5821141"   "5851876"   "5932907"   "5976928"   "6069391"   "6188120").PN. OR ("6344413").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/17 09:02
S35	2538	438/637.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/17 09:03
S36	7366	S20 S21 S22 S23 S24 S25 S26 S27 S28 S29 S30 S31 S35	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/15 13:44
S37	444	S36 and ((taper angle) with (etch trench via opening))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/17 09:04
S38	679	S36 and ((taper\$2 angle\$2) with (etch trench via opening))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/29 10:40
S39	27	("3717852"   "4145803"   "4692787"   "4800176"   "5095362"   "5100827"   "5120679"   "5166556"   "5171715"   "5196724"   "5233217"   "5242851"   "5248632"   "5272101"   "5290734"   "5300456"   "5322812").PN. OR ("5663091").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/17 09:33
S40	17	capacitor and "broken wire" with electrode	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/17 10:06

## EAST Search History

S41	5351	"leakage current" with capacitor	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/17 10:07
S42	42	S41 and (overhang overhung)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/17 09:38
S43	875	S41 and (taper\$2 angle\$2)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/17 09:38
S44	125	S41 and ((taper\$2 angle\$2) with (etch trench via opening))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/17 10:06
S45	227042	((taper\$2 angle\$2) with (etch trench via opening))	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/17 10:05
S46	6798	((taper\$2 angle\$2) with (etch trench via opening)) and capacitor	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/17 10:06
S47	1	("6239461").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/17 10:07
S48	123	S41 and ((taper\$2 angle\$2) with (etch trench via opening))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/17 10:07
S49	18	capacitor and "broken wire" with electrode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/17 10:07
S50	7350	"leakage current" with capacitor	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/17 10:07
S51	125	S50 and ((taper\$2 angle\$2) with (etch trench via opening))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/17 10:08
S52	2	S51 not S44	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/17 10:08

## EAST Search History

S53	0	"10971022".pn. "10855562".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/19 15:42
S54	24	("20020163026" "20030085420" "20030136996" "20030178728" "20030227044" "20030227045" "20050040448" "20050161720" "20050253179" "6423998" "6768154" "6784069").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/19 15:46
S55	8	("20030201537" "5180689" "5203957" "6277757").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/19 15:47
S56	2	"20040166668".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/19 15:48
S57	0	("2004/0166668").URPN.	USPAT	OR	OFF	2006/03/19 15:48
S58	0	("20040166668").URPN.	USPAT	OR	OFF	2006/03/19 15:49
S59	187	(trench channel via opening) with capacitor with (taper tapered angle obtuse)	USPAT	OR	OFF	2006/03/19 15:49
S60	4	("4200968"   "4364074"   "4502208"   "4763180").PN. OR ("6687114").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/19 15:50
S61	2536	438/253.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/21 14:11
S62	11	"5354386"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/28 17:31
S63	2	"5354386".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/28 17:31
S64	10	("4451326"   "4698132").PN. OR ("5354386").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/28 17:40

## EAST Search History

S65	256	smooth with taper with (via contact opening)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/29 09:24
S66	4	("6051859" "6399495").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/29 09:18
S67	812	(smooth with (via contact opening)) and (taper with (via contact opening))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/29 09:25
S68	45	("4764245"   "4807016"   "4814041"   "4832788"   "4857141"   "4889588"   "4902377"   "4908333"   "5155064"   "5180689"   "5203957"   "5219791"   "5294296"   "5320981").PN. OR ("5453403").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/29 09:33
S69	4506	438/396.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/29 10:41
S70	39	S69 and mask and taper	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/29 10:51
S71	26	S69 and mask and angled	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/29 10:52
S72	730	438/386.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/29 10:52
S73	21	S72 and mask and angled	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/29 10:52
S74	496	438/640.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/15 10:09
S75	695	438/666.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/15 10:09

## EAST Search History

S76	765	438/701.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/15 10:09
S77	307	438/713.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/15 10:09
S78	898	438/978.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/15 10:09
S79	287	438/for.458.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/15 10:09
S80	371	438/for.492.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/15 10:09
S81	1209	438/for.355.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/15 10:09
S82	270	438/353.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/15 10:09
S83	4634	438/396.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/15 10:09
S84	788	438/386.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/15 10:09
S85	336	438/387.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/15 10:09



## EAST Search History

S86	2743	438/637.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/15 10:09
S87	7847	S74 S75 S76 S77 S78 S79 S80 S81 S82 S83 S84 S85 S86	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/15 10:09
S88	27	("3717852"   "4145803"   "4692787"   "4800176"   "5095362"   "5100827"   "5120679"   "5166556"   "5171715"   "5196724"   "5233217"   "5242851"   "5248632"   "5272101"   "5290734"   "5300456"   "5322812").PN. OR ("5663091").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/15 10:18
S89	27	("3717852"   "4145803"   "4692787"   "4800176"   "5095362"   "5100827"   "5120679"   "5166556"   "5171715"   "5196724"   "5233217"   "5242851"   "5248632"   "5272101"   "5290734"   "5300456"   "5322812").PN. OR ("5663091").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/15 10:20
S90	2587	antifuse	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/15 10:20
S91	346	S90 and (smooth taper tapered angle)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/15 10:27
S92	5	("20010020713"   "20030211731"   "20040106266"   "5063177"   "5451551").PN. OR ("6894364"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/15 10:23
S93	28	("3717852"   "4145803"   "4692787"   "4748490"   "4800176"   "5095362"   "5100827"   "5120679"   "5130777"   "5166556"   "5171715"   "5196724"   "5233217"   "5242851"   "5248632"   "5272101"   "5290734"   "5300456"   "5322812").PN. OR ("5550404"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/15 10:27
S94	1808	capacitor near5 interconnect	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/15 10:27
S95	411	S94 and (smooth taper tapered angle)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/15 10:27